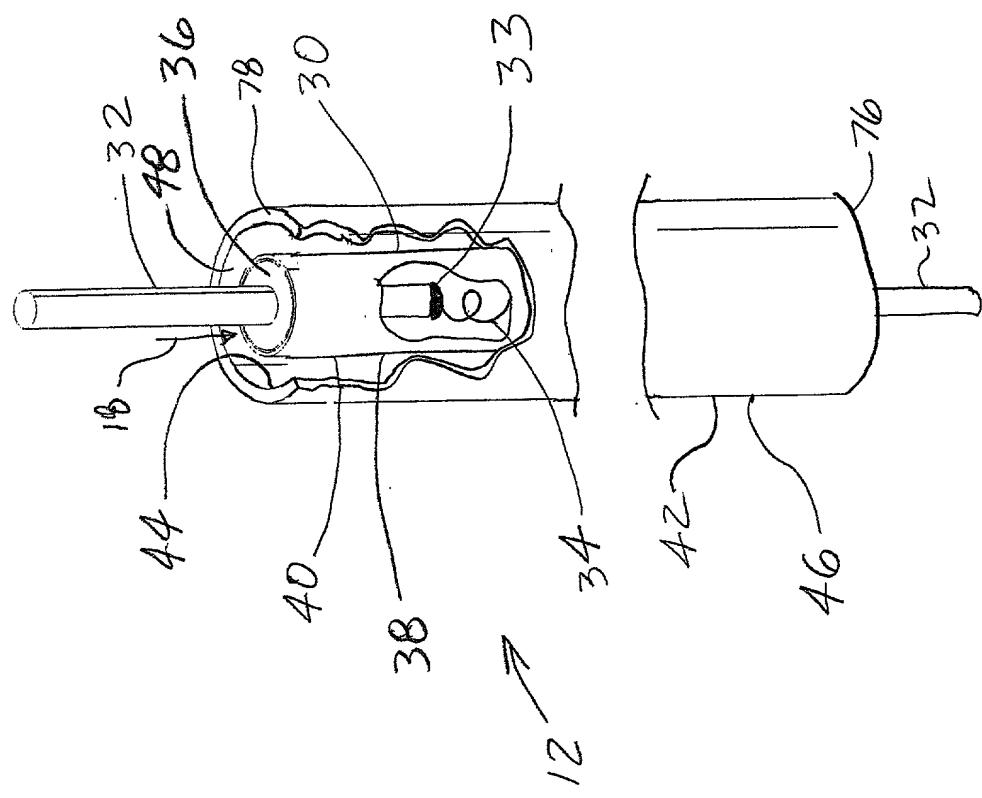


F16.1



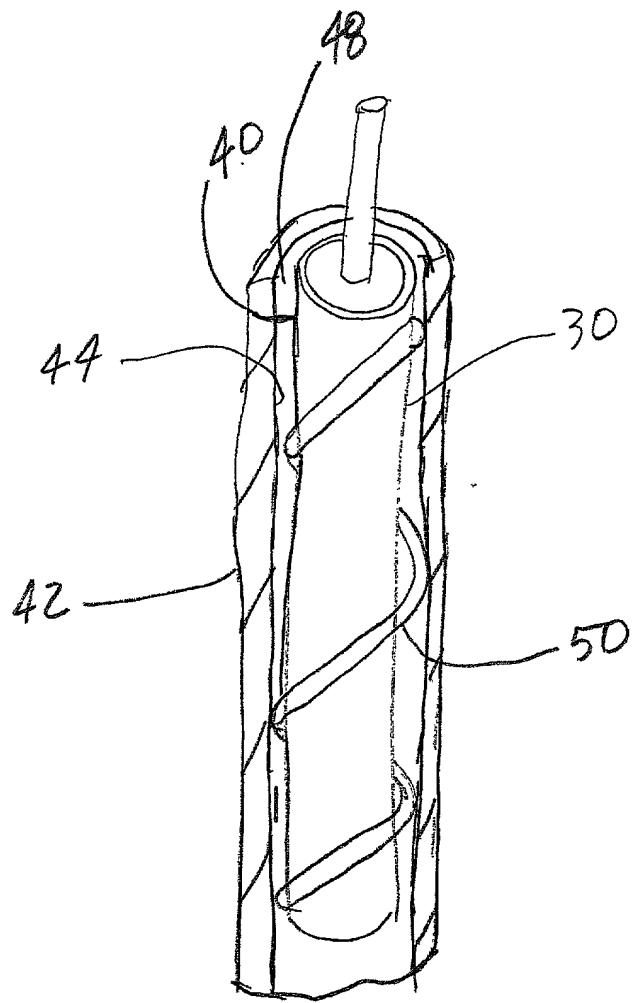


FIG. 2

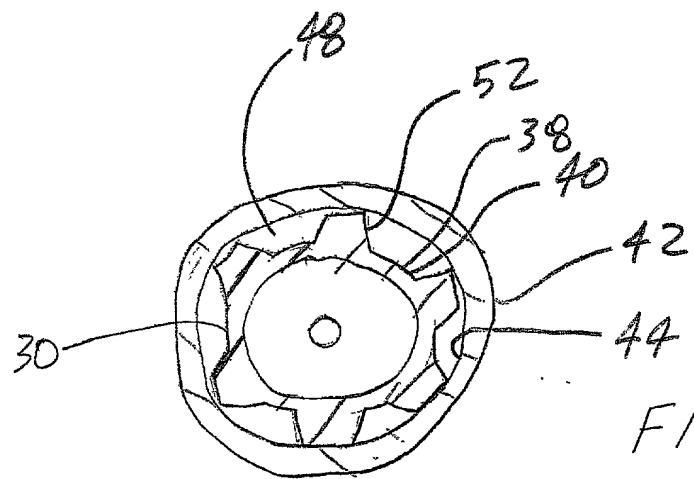


FIG. 3A

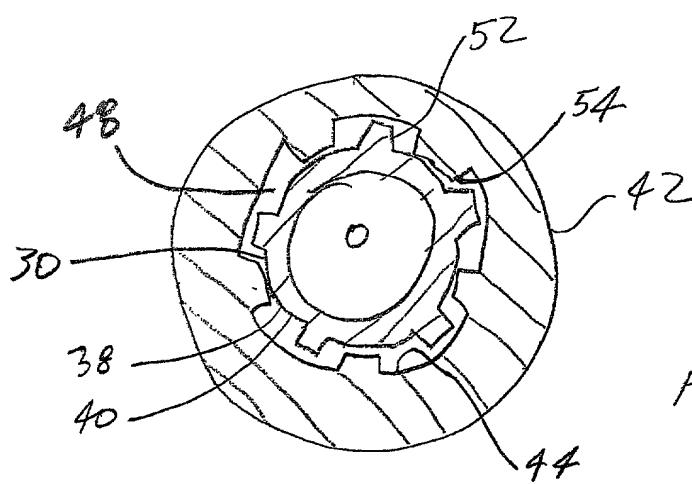


FIG 3B

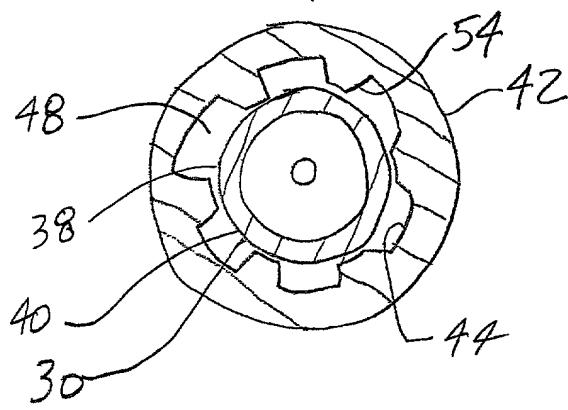


FIG 3C

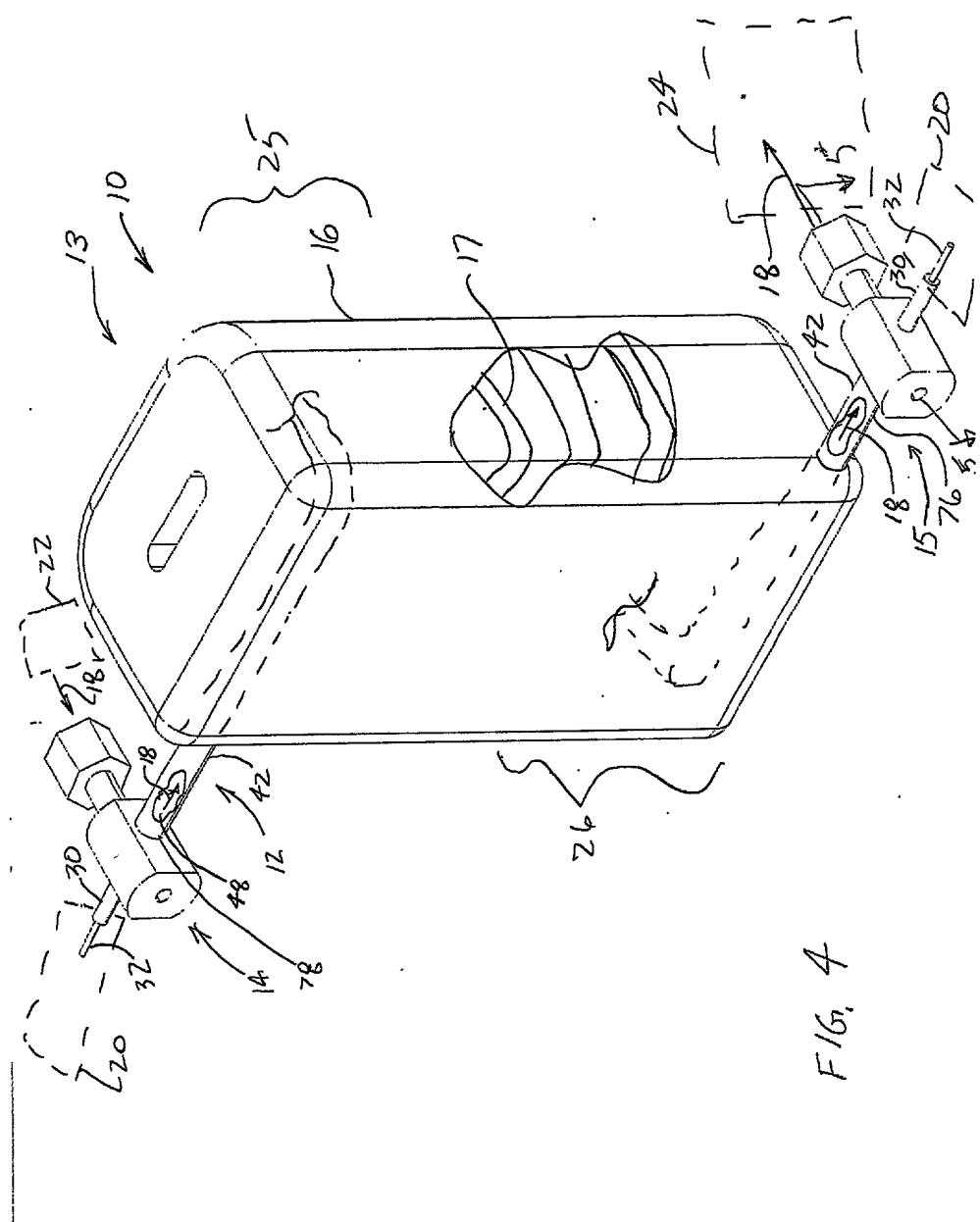


FIG. 4

10003958

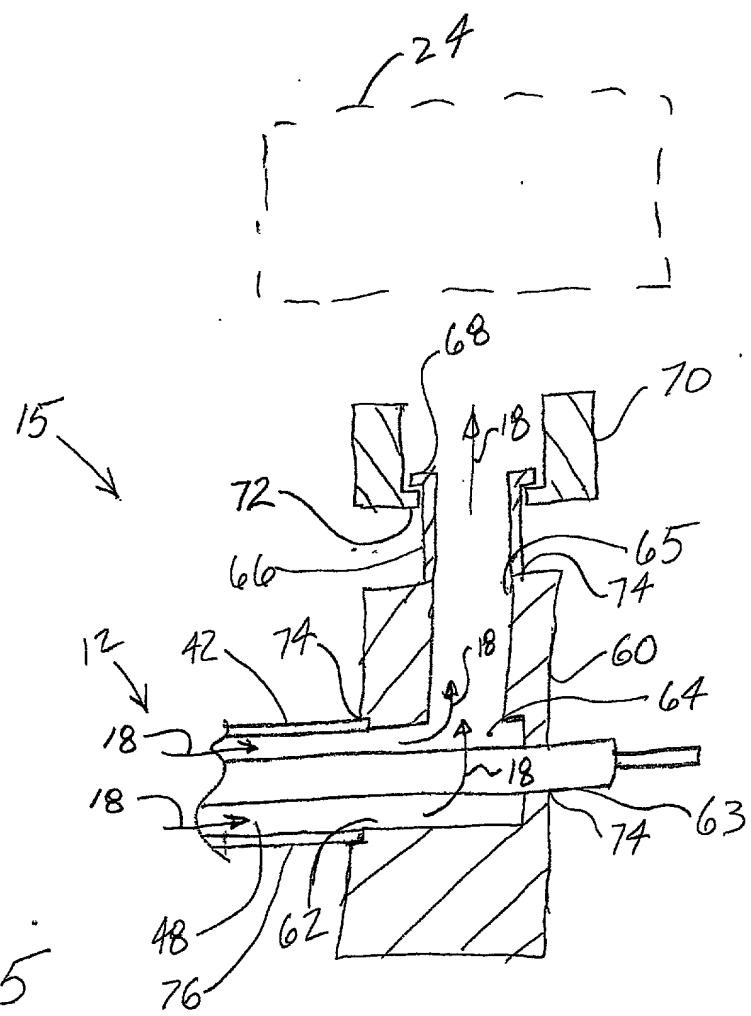
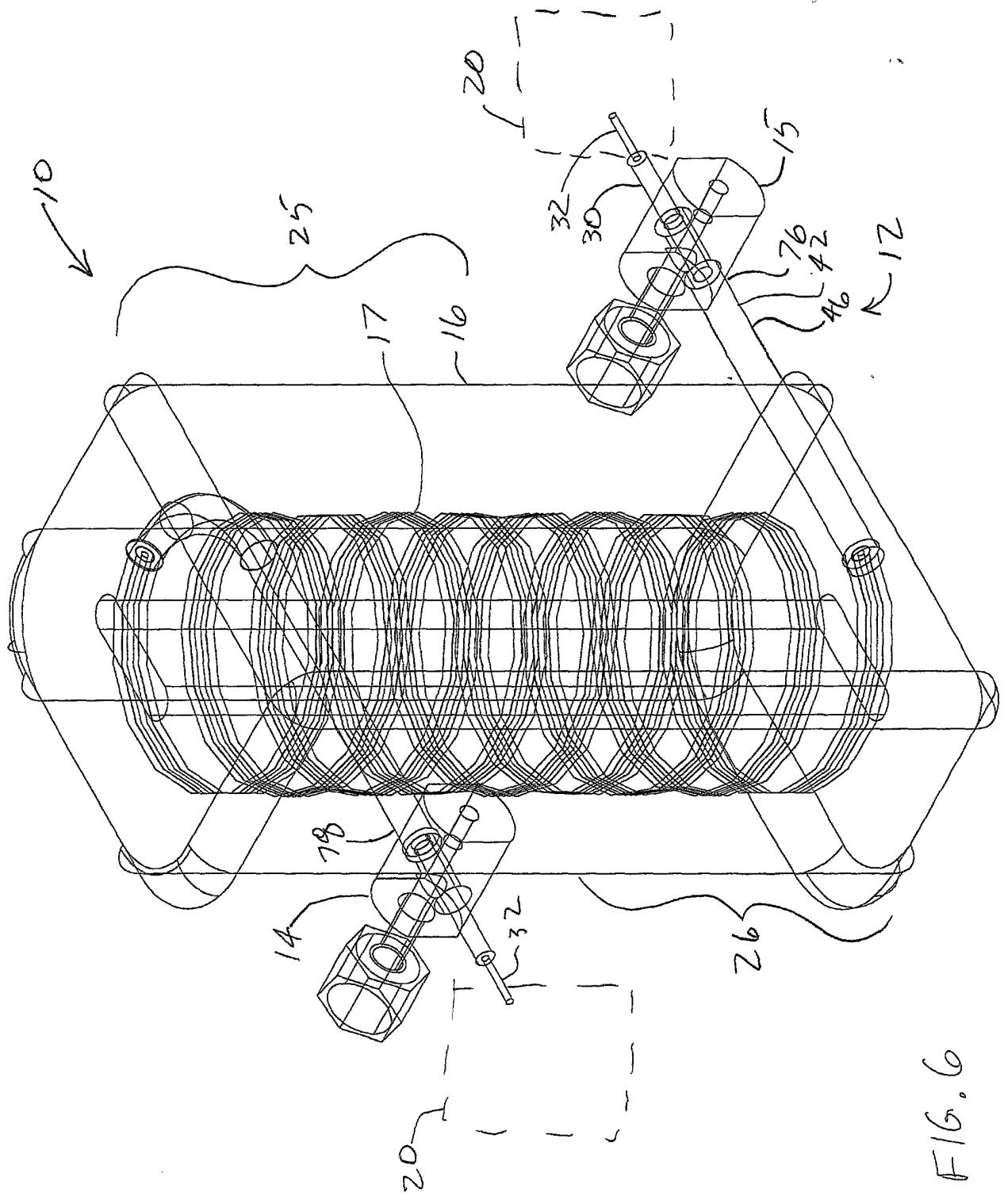


FIG. 5



F16.6

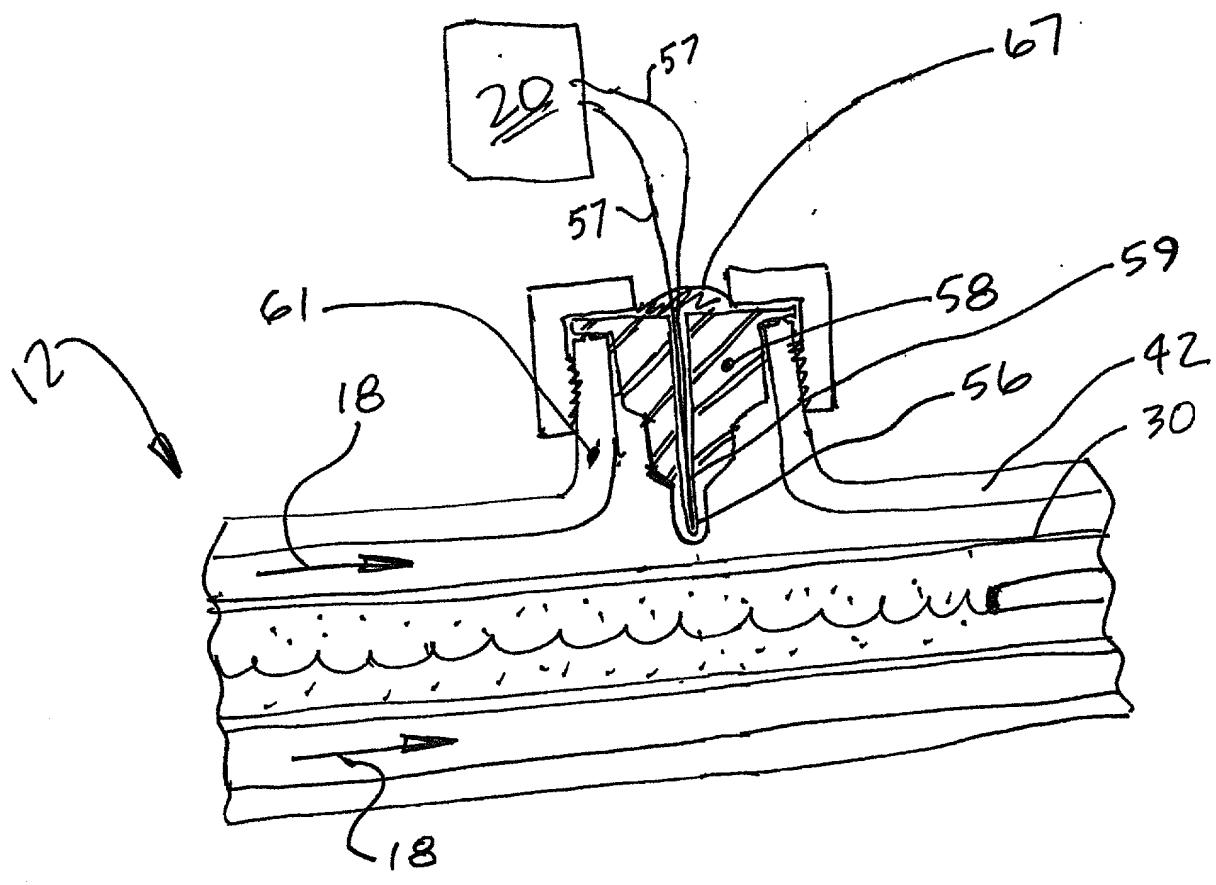


FIG. 7

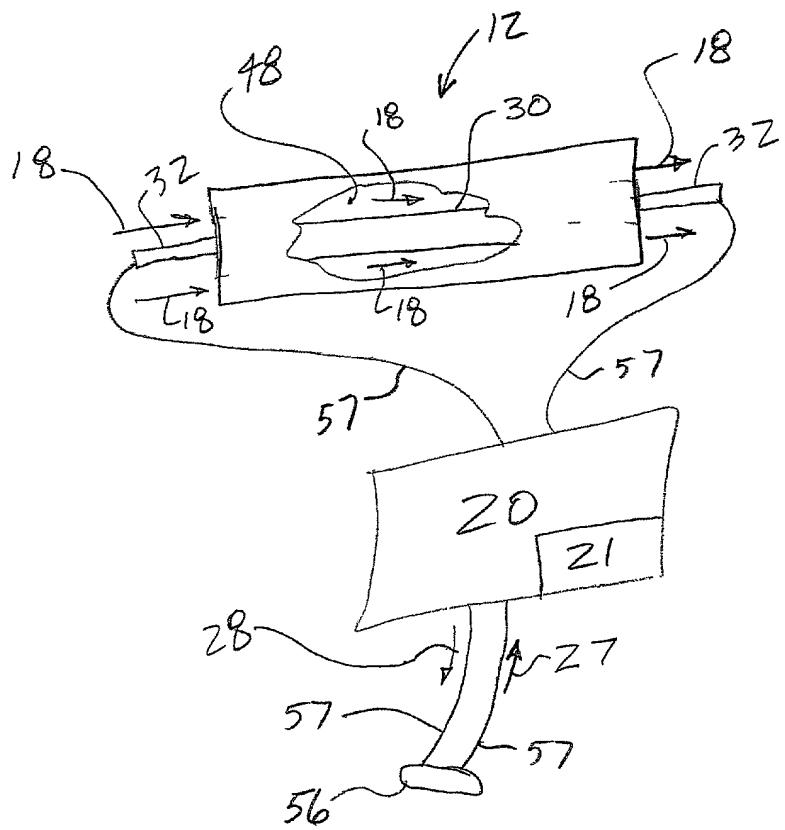
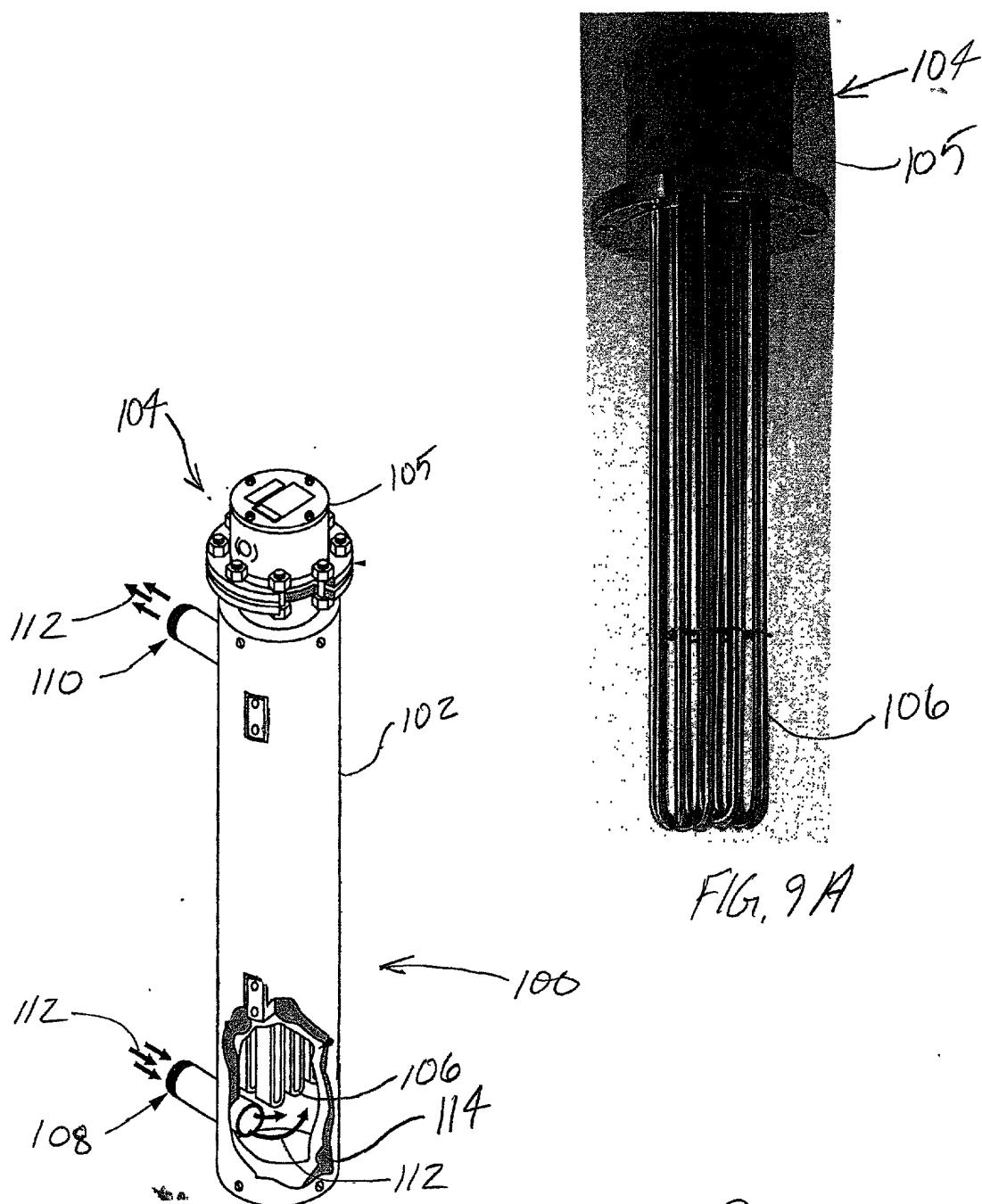


FIG. 8



PRIOR ART

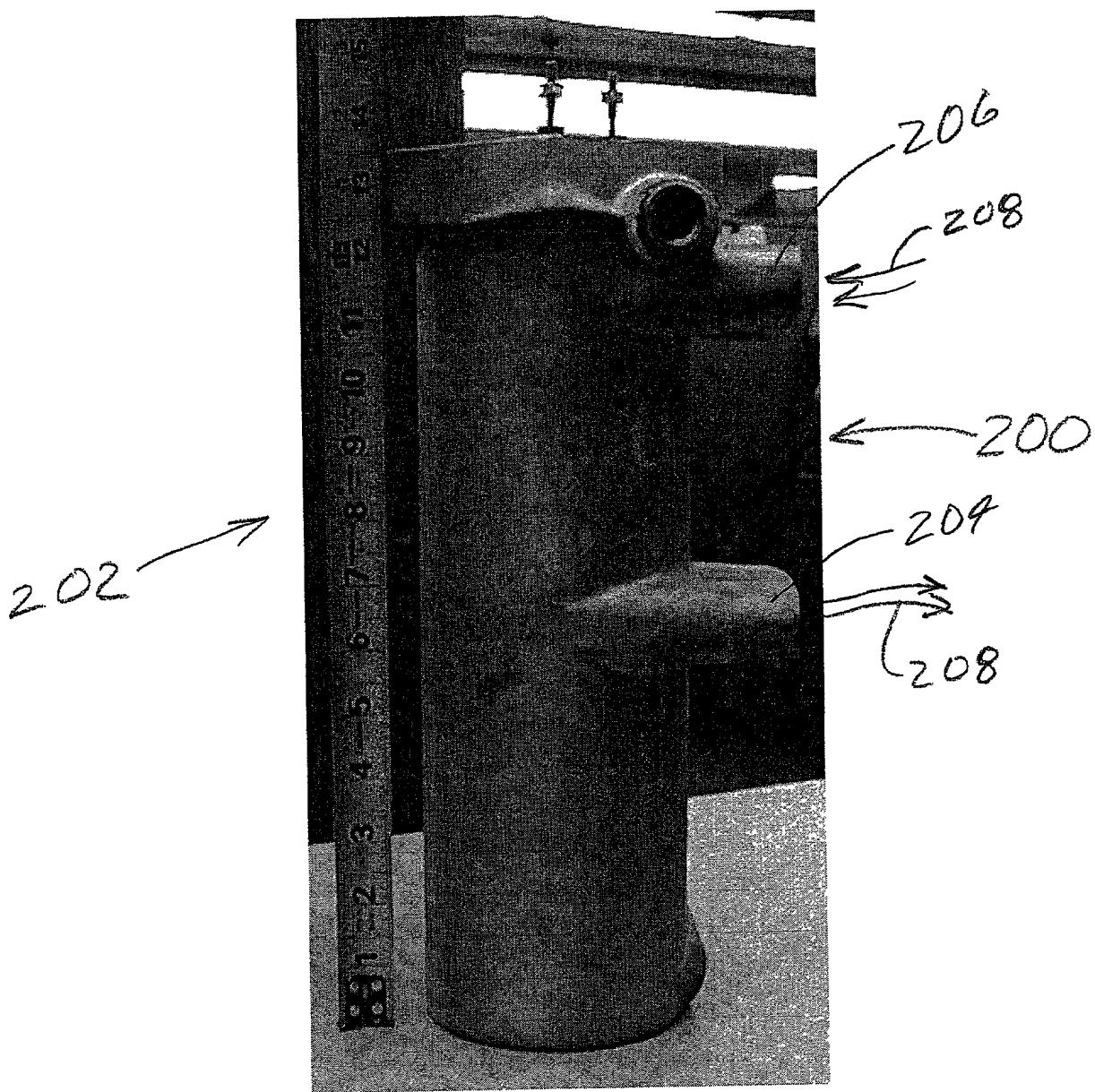


FIG. 10

PRIOR ART

Response Time from ambient to 90° F at 60 WSI

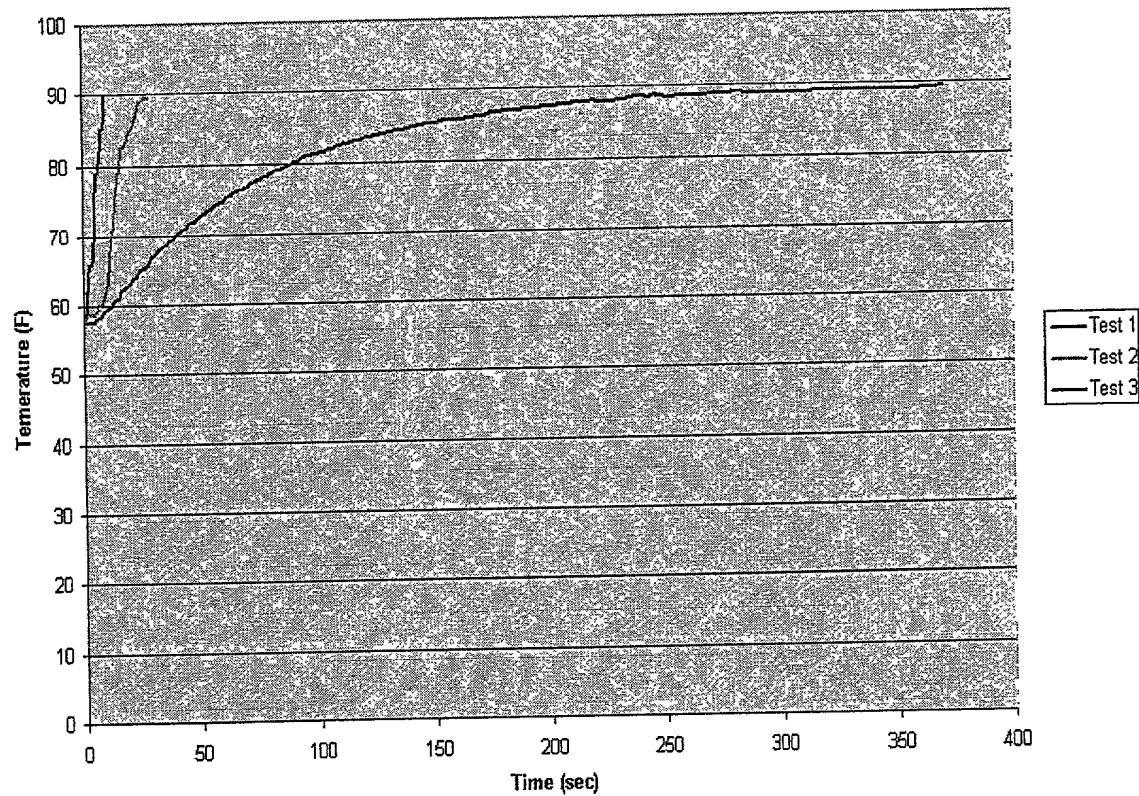


FIG. 11

**Response Time from ambient to 90° F at 60 WSI**

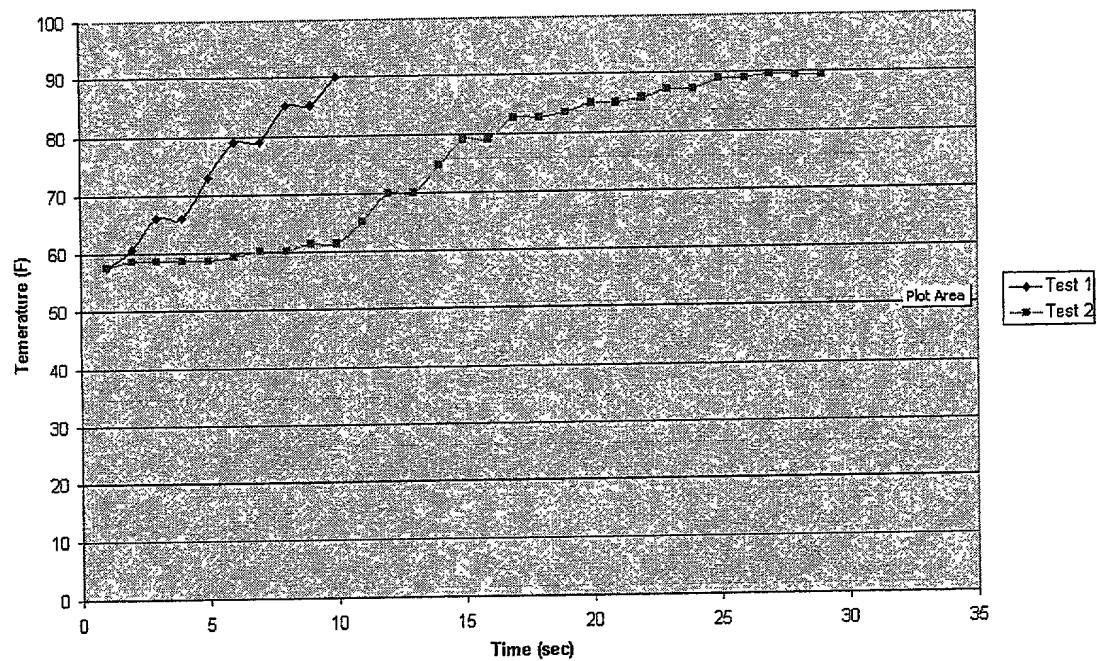


FIG. 12

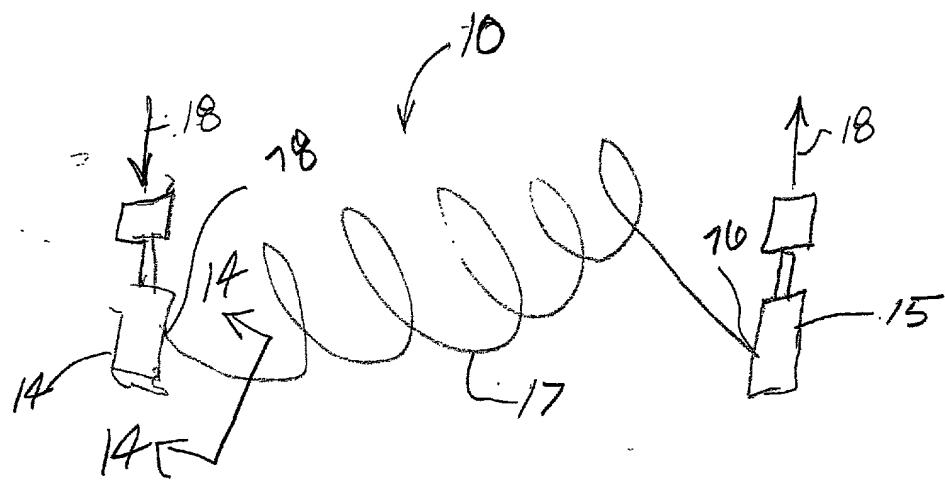


FIG. 13

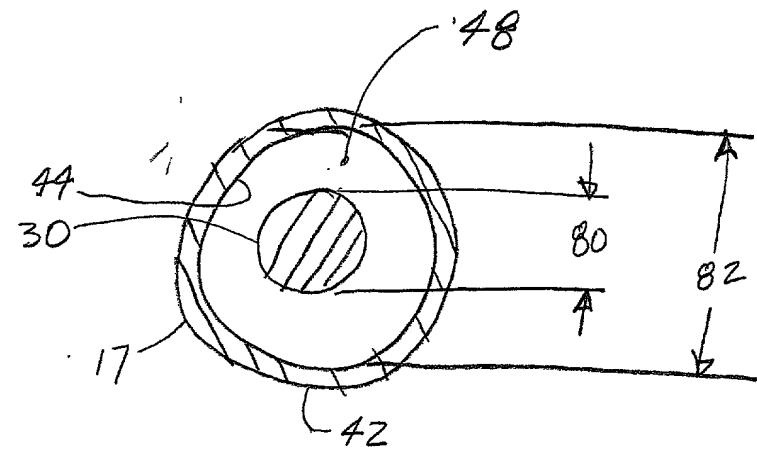


FIG. 14

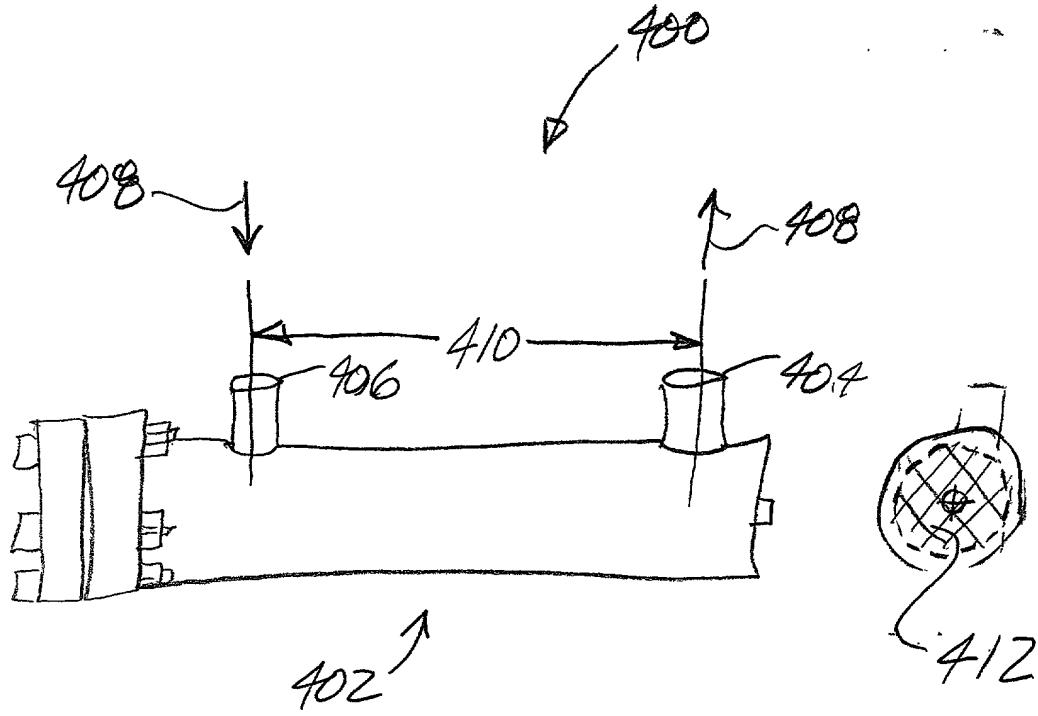


FIG. 15

FIG. 16

PRIOR ART

### **Thermal Properties of Air @ Various Temperatures & 500 psig**

Temperature, F	68	216	500	1000
Specific Heat Capacity, $C_p$	.241	.243	.250	.264
Thermal Conductivity, K	.0134	.0143	.0157	.0180
Viscosity, Absolute, $\mu$	.0442	.0540	.0715	.0977
Density, $\rho$	2.62	2.06	1.43	0.94

$C_p$  = BTU/lb-°F

K = BTU/Ft - hr - °F

$\mu$  = lb/Ft - hr

$\rho$  = lb/Ft<sup>3</sup>

**FIG. 17**